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L1	326	(717/126).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/24 08:05
L2	29	specification with axiom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/24 08:07
L3	2301	(717/104,114-119,126).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/24 08:07
L4	3	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/24 08:09
L5	13	axiom with test	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/24 08:09
S1	2301	(717/104,114-119,126).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/24 08:04
S2	30833	specification same model	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 22:32
S3	2795	specification same model same test	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/24 08:07
S4	36	S1 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 22:33

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S6	15	recurs\$3 with base with`terminat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/23 11:09



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# 1 [Daistish: systematic algebraic testing for OO programs in the presence of side-effects](#)



Merlin Hughes, David Stotts

May 1996

**ACM SIGSOFT Software Engineering Notes , Proceedings of the 1996 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '96**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(607.18 KB)

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Daistish is a tool that performs systematic algebraic testing similar to Gannon's DAISTS tool [2]. However, Daistish creates effective test drivers for programs in languages that use side effects to implement ADTs; this includes C++ and most other object-oriented languages. The functional approach of DAISTS does not apply directly in these cases. The approach in our work is most similar to the ASTOOT system of Doong and Frankl [1]; Daistish differs from ASTOOT by using Gutttag-style algebraic spe ...

## 2 [Parameterized unit tests](#)



Nikolai Tillmann, Wolfram Schulte

September 2005

**ACM SIGSOFT Software Engineering Notes , Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(131.27 KB)

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Parameterized unit tests extend the current industry practice of using closed unit tests defined as parameterless methods. Parameterized unit tests separate two concerns: 1) They specify the external behavior of the involved methods for all test arguments. 2) Test cases can be re-obtained as traditional closed unit tests by instantiating the parameterized unit tests. Symbolic execution and constraint solving can be used to automatically choose a minimal set of inputs that exercise a parameterize ...

**Keywords:** algebraic data types, automatic test input generation, constraint solving, symbolic execution, unit testing

## 3 [Data Abstraction, Implementation, Specification, and Testing](#)

John Gannon, Paul McMullin, Richard Hamlet


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### 1 [The ASTOOT approach to testing object-oriented programs](#)



Roong-Ko Doong, Phyllis G. Frankl

 April 1994 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 3 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(2.01 MB\)](#)

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This article describes a new approach to the unit testing of object-oriented programs, a set of tools based on this approach, and two case studies. In this approach, each test case consists of a tuple of sequences of messages, along with tags indicating whether these sequences should put objects of the class under test into equivalent states and/or return objects that are in equivalent states. Tests are executed by sending the sequences to objects of the class under test, then invoking a us ...

**Keywords:** abstract data types, algebraic specification, object-oriented programming, software testing

### 2 [Data Abstraction, Implementation, Specification, and Testing](#)



John Gannon, Paul McMullin, Richard Hamlet

 July 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 3 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(809.14 KB\)](#)

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### 3 [Daistish: systematic algebraic testing for OO programs in the presence of side-effects](#)



Merlin Hughes, David Stotts

 May 1996 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1996 ACM SIGSOFT international symposium on Software testing and analysis ISSTA**

'96, Volume 21 Issue 3

Publisher: ACM Press

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Daistish is a tool that performs systematic algebraic testing similar to Gannon's DAISTS tool [2]. However, Daistish creates effective test drivers for programs in languages that use side effects to implement ADTs; this includes C++ and most other object-oriented



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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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